

Fig 1

107252 00000000

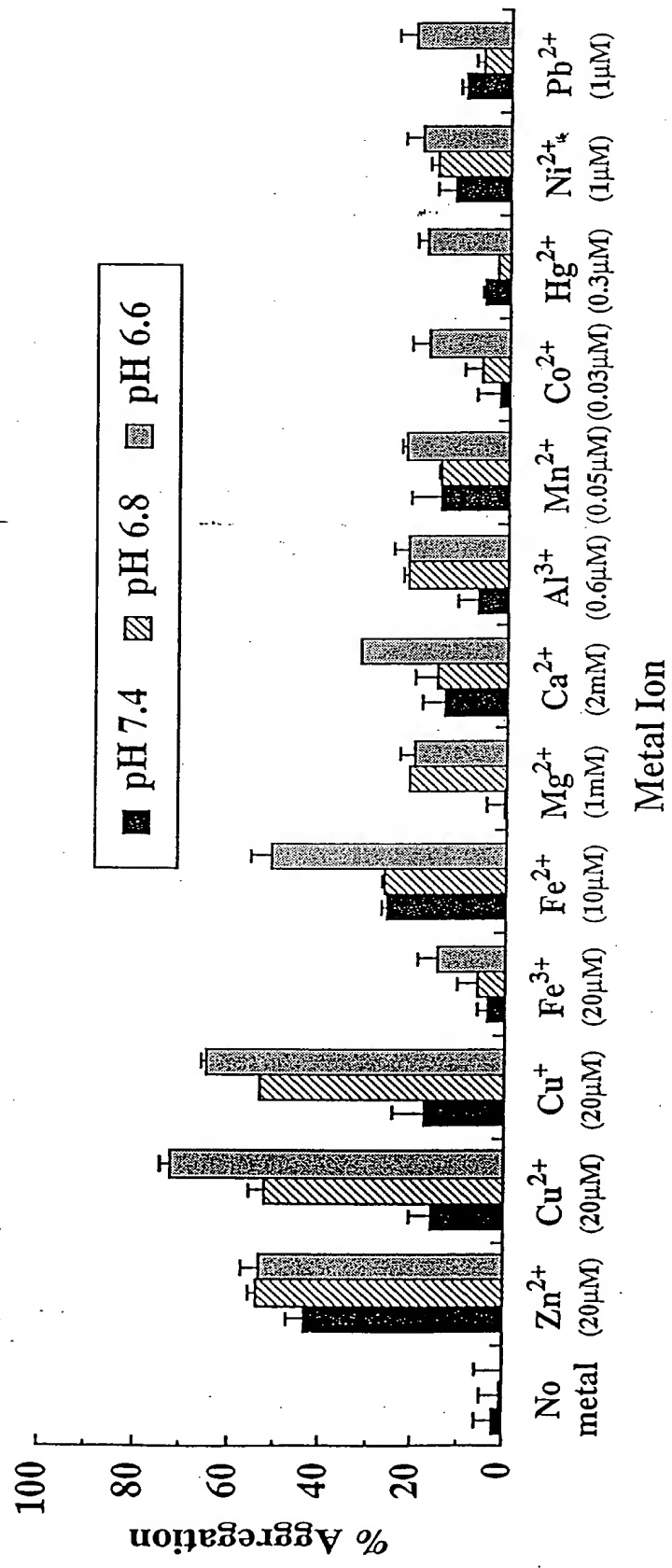


Fig 2A

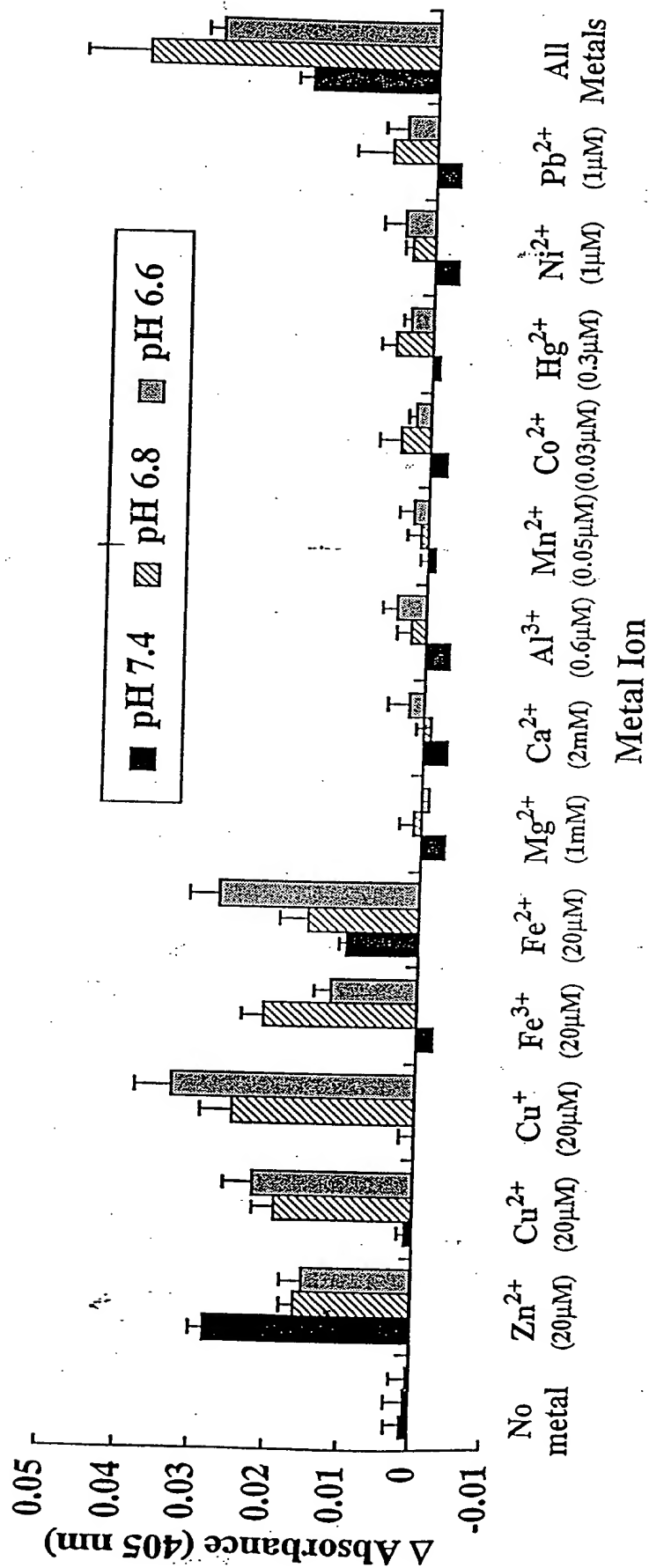


Fig. 2B

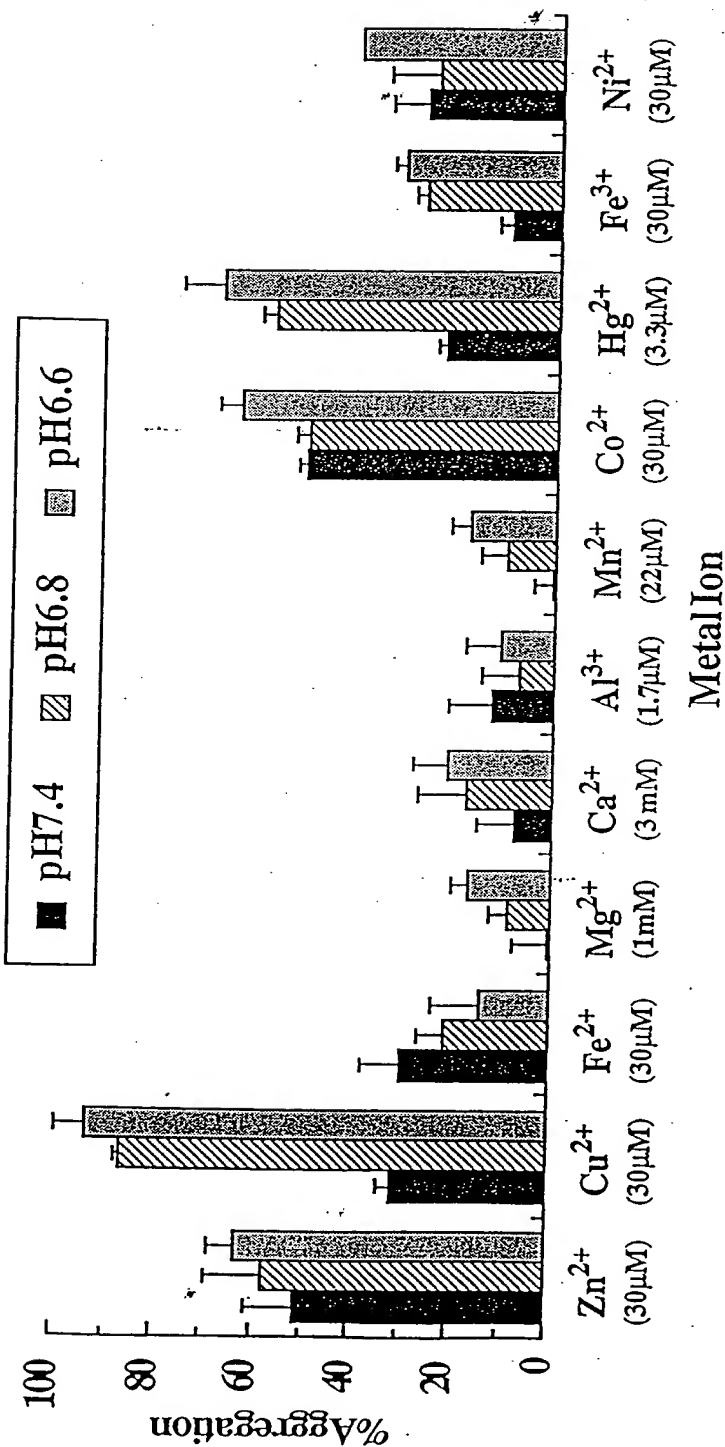
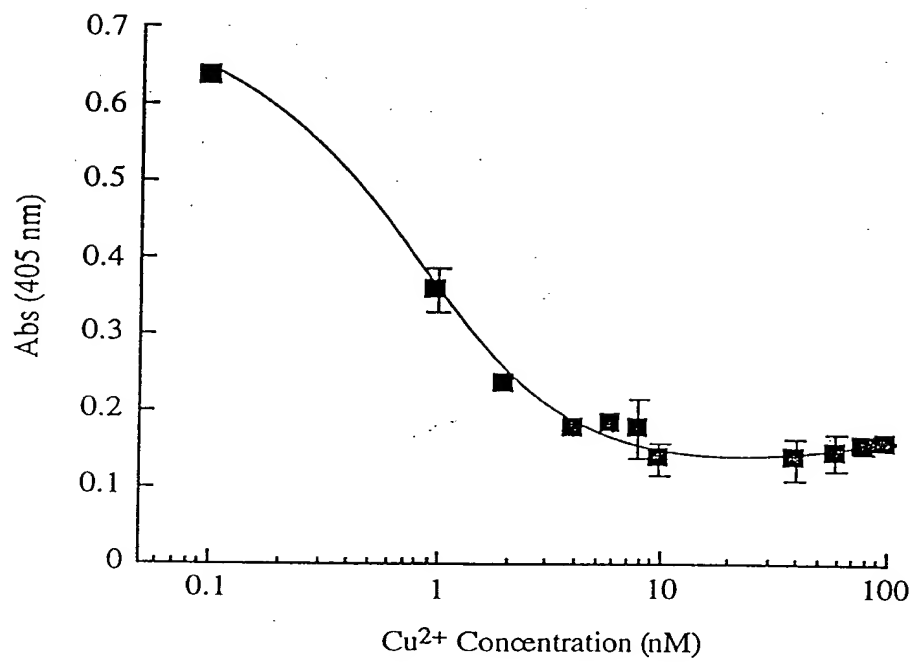


Fig 2C

[illegible]

F.g. 3

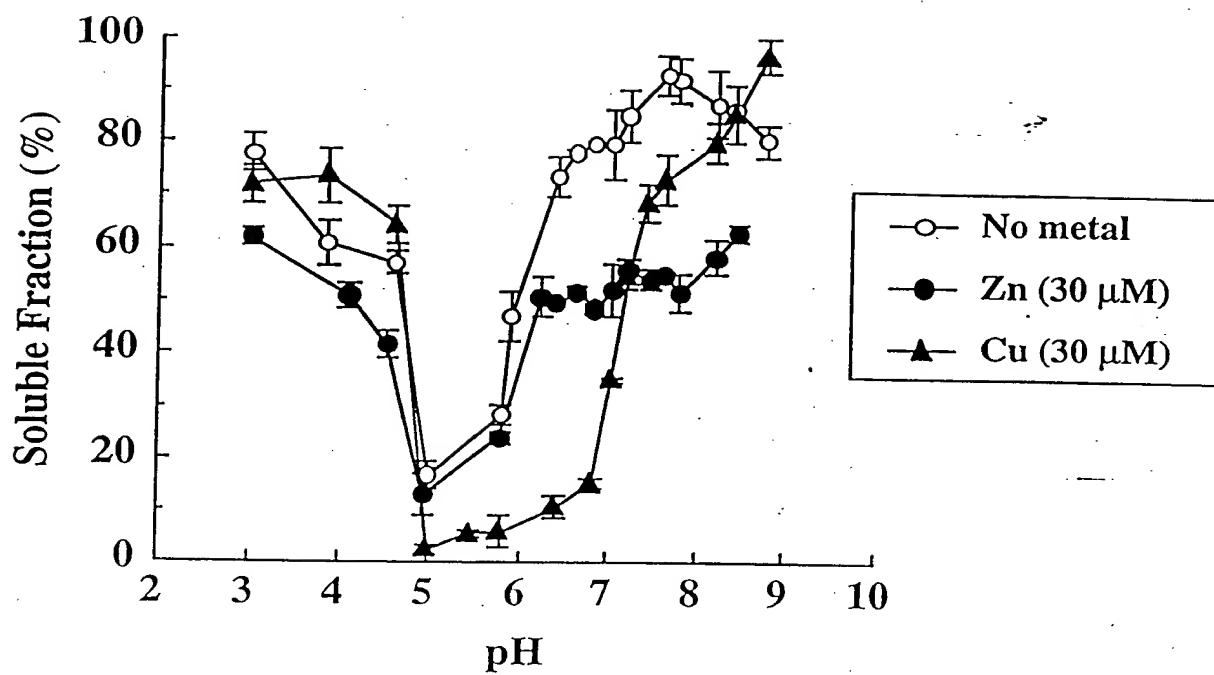


Fig. 4 A

2025092500

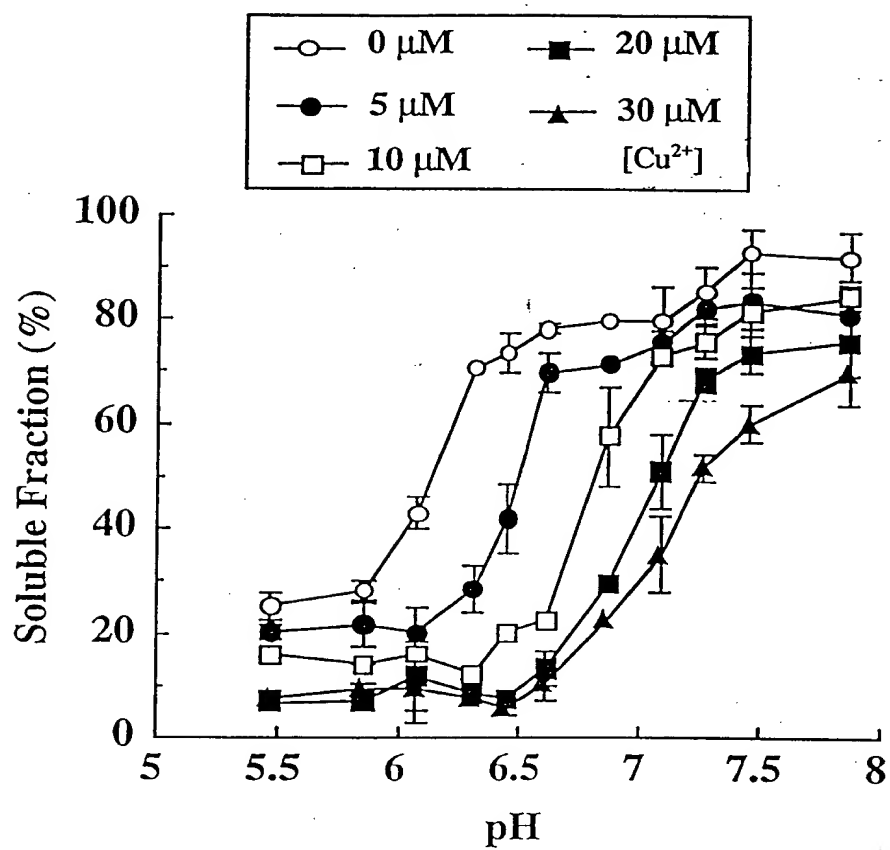


Fig 4 B.

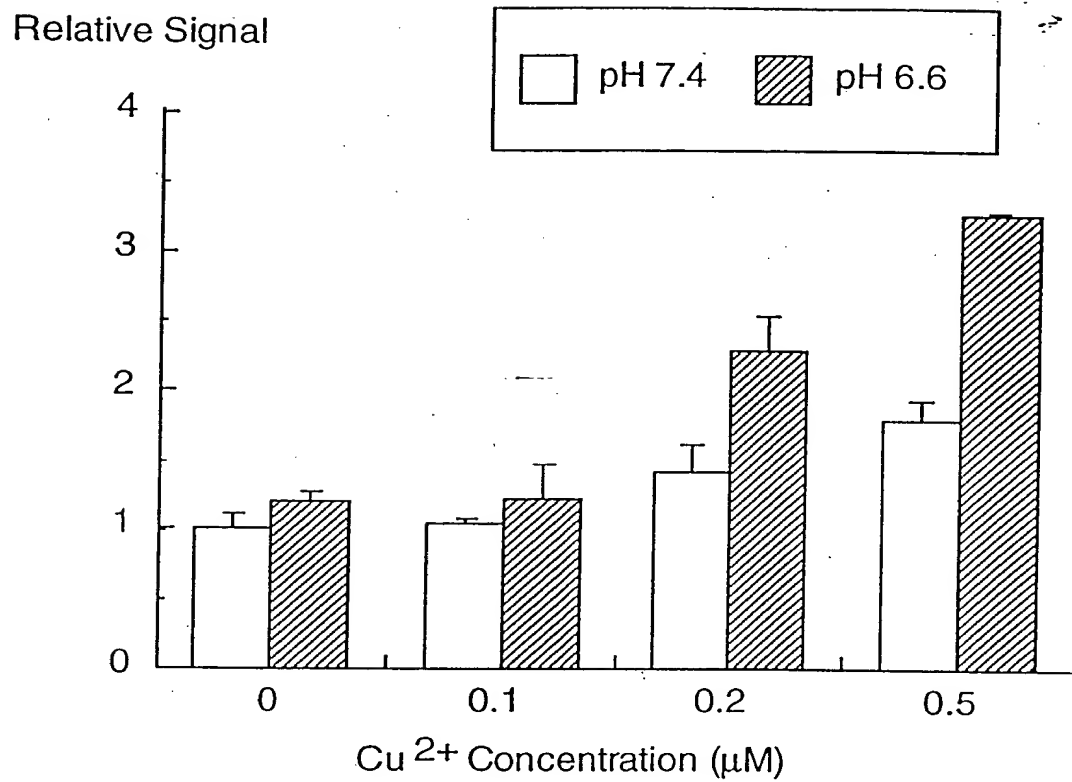


Fig. 4C

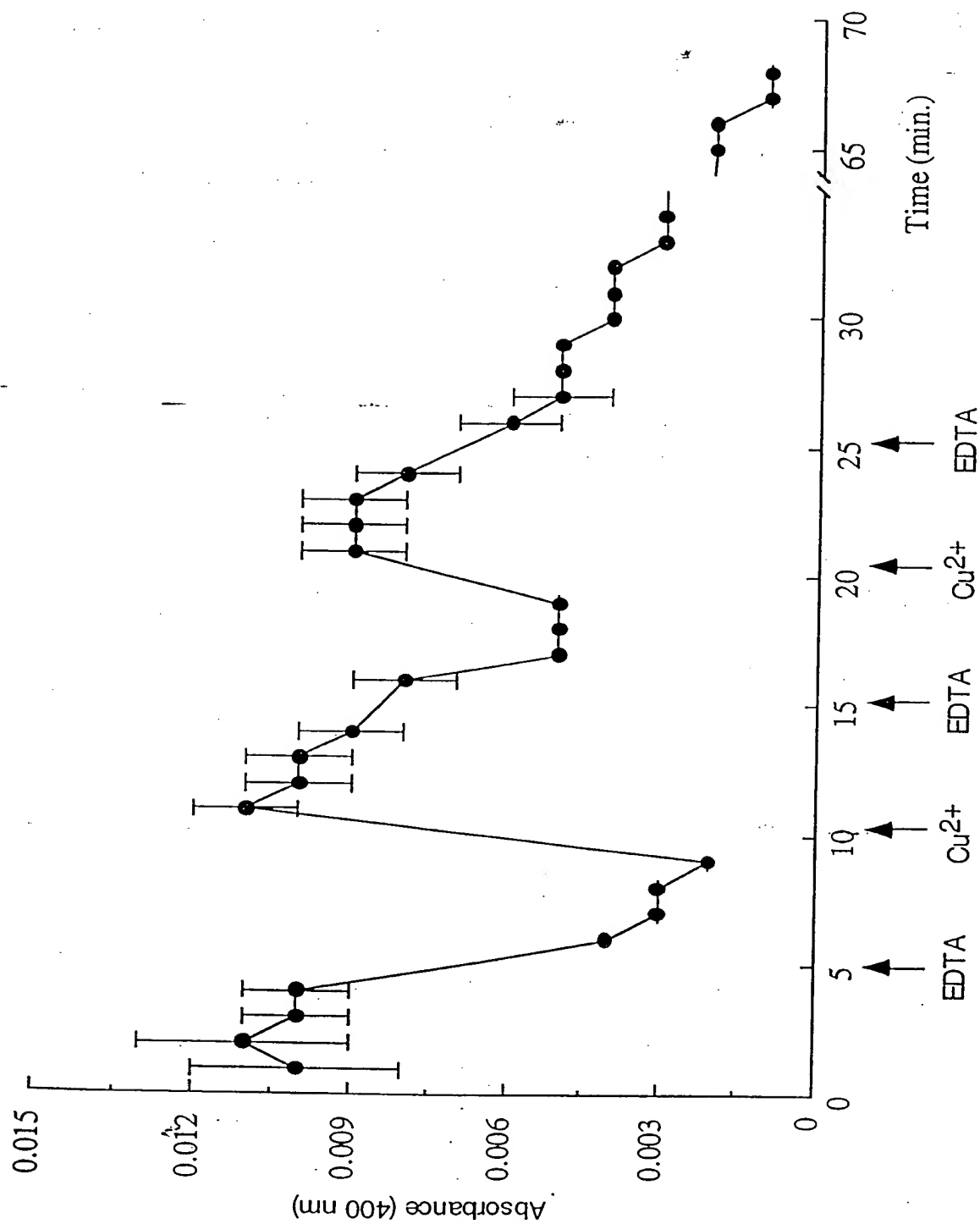


Fig. 5A

1. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 2. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 3. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 4. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 5. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 6. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 7. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 8. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 9. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$
 10. $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |u|^2 dx = \int_{\mathbb{R}^n} u \Delta u dx = - \int_{\mathbb{R}^n} |\nabla u|^2 dx \leq 0$

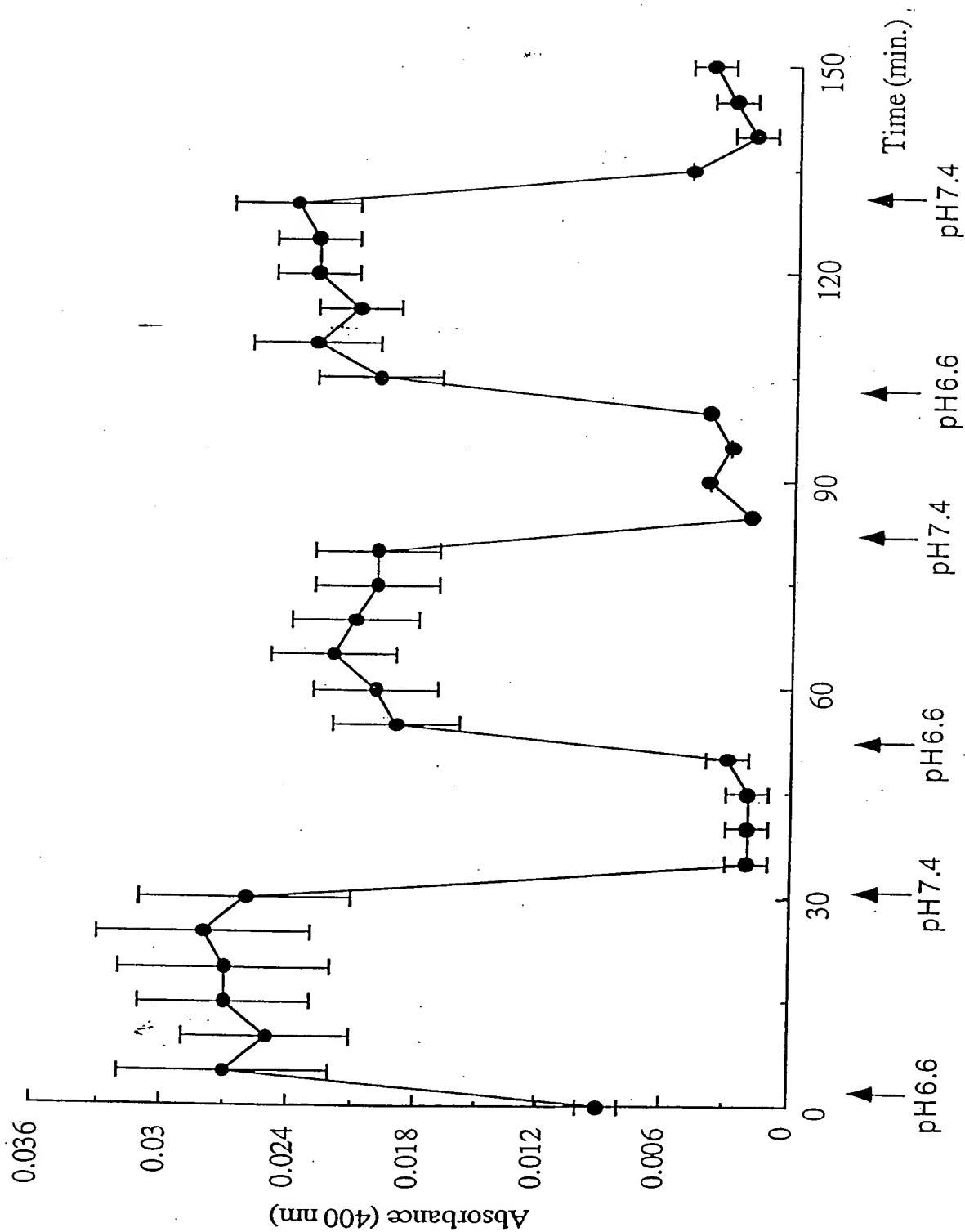


Fig. 5B

Fig 6

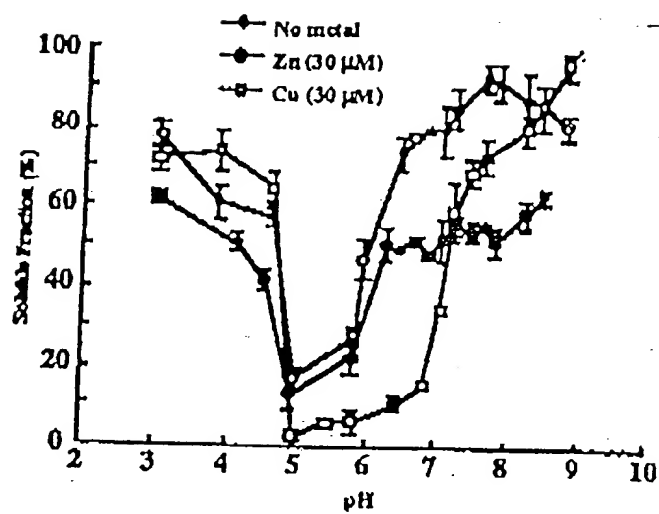
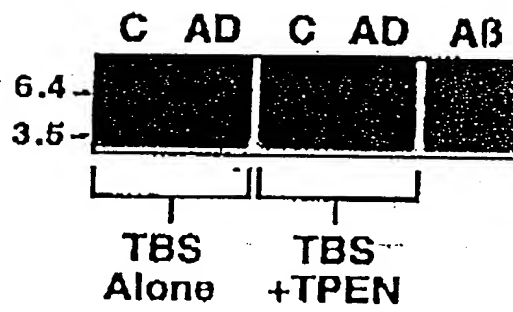


Fig. 7

10



101250" 0063550

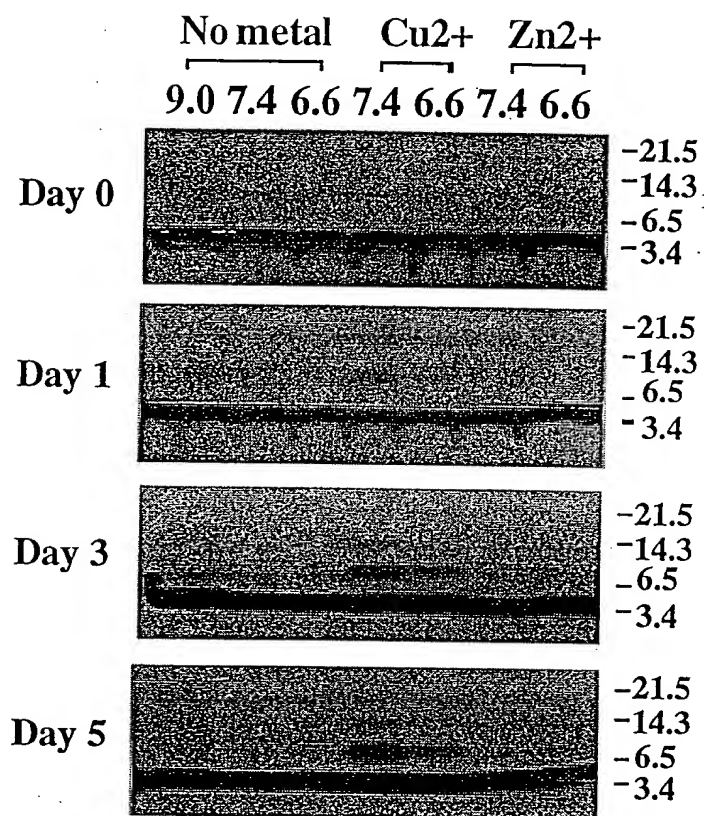
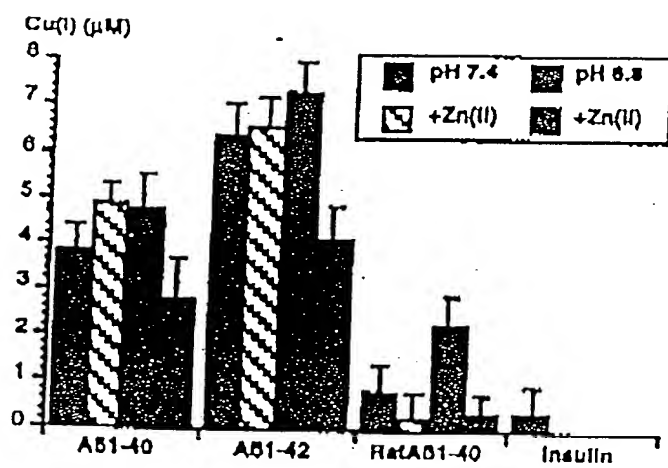


Fig. 9



* Fig. 10

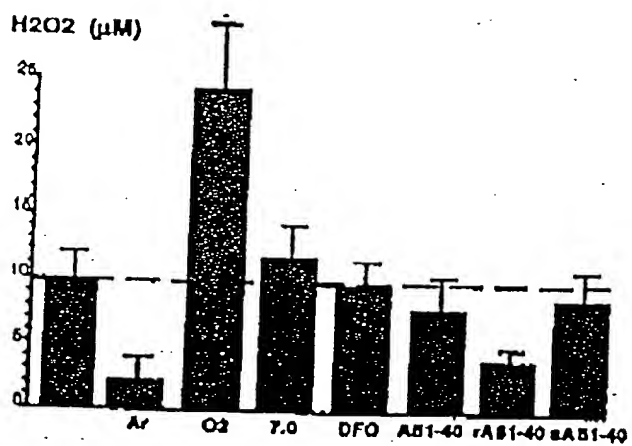


Fig. 11

The diagram illustrates the catalytic cycle of superoxide dismutase (SOD). It shows the following steps:

- Superoxide Disproportionation:** Two superoxide ions ($O_2^{\cdot -}$) are converted into molecular oxygen (O_2) and hydrogen peroxide (H_2O_2). This step is catalyzed by the active site of SOD, labeled $A\beta$.
- Regeneration of the Active Site:** The hydrogen peroxide (H_2O_2) is then converted into water (H_2O) and oxygen (O_2). This step is also catalyzed by the active site, labeled $A\beta$.
- Redox Cycle:** The active site of SOD undergoes a redox cycle. It is initially in an oxidized state (M^{n+}). During the first step, it is reduced to a lower oxidation state ($M^{(n+1)+}$). In the second step, it is re-oxidized back to the M^{n+} state, completing the cycle.

Fig. 12

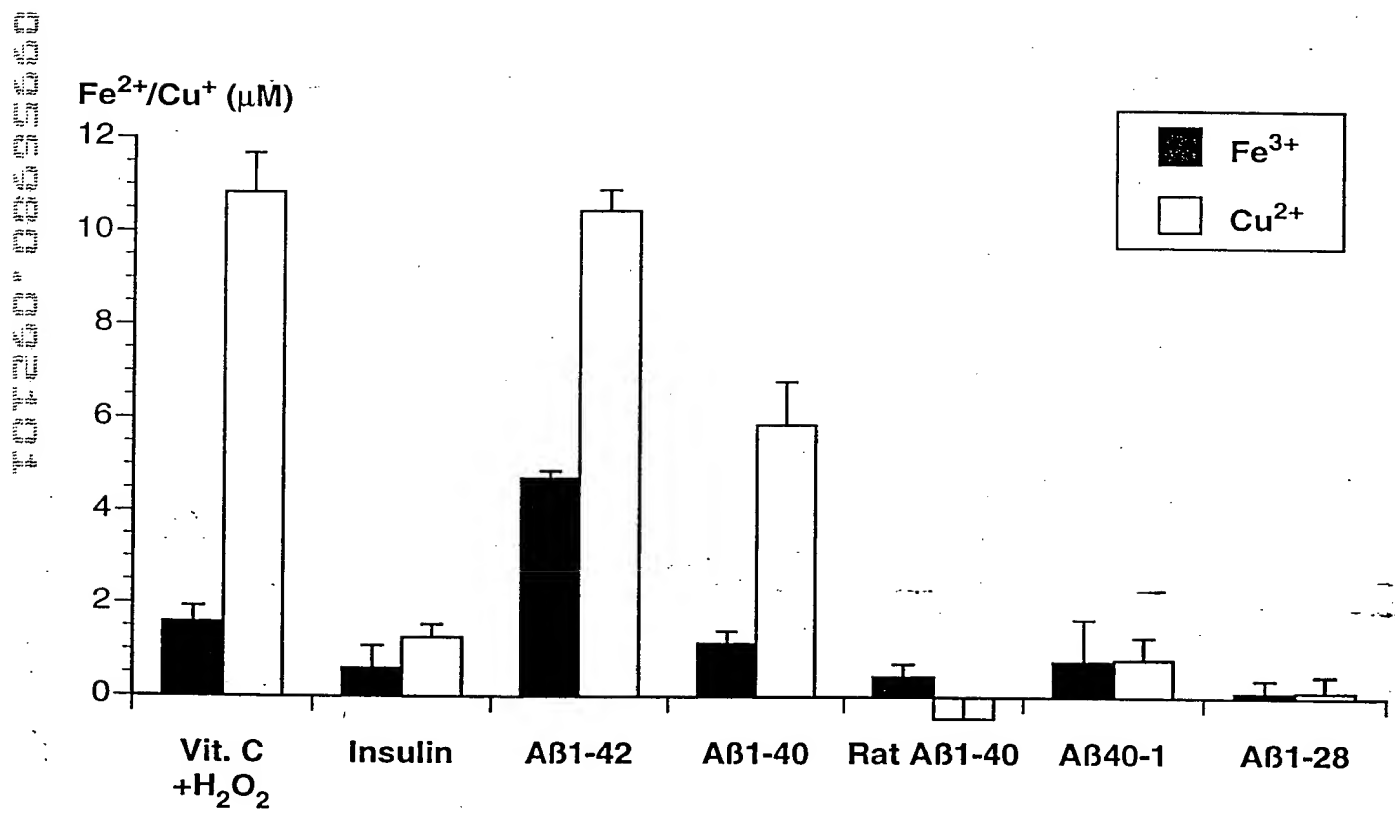


Fig. 13A

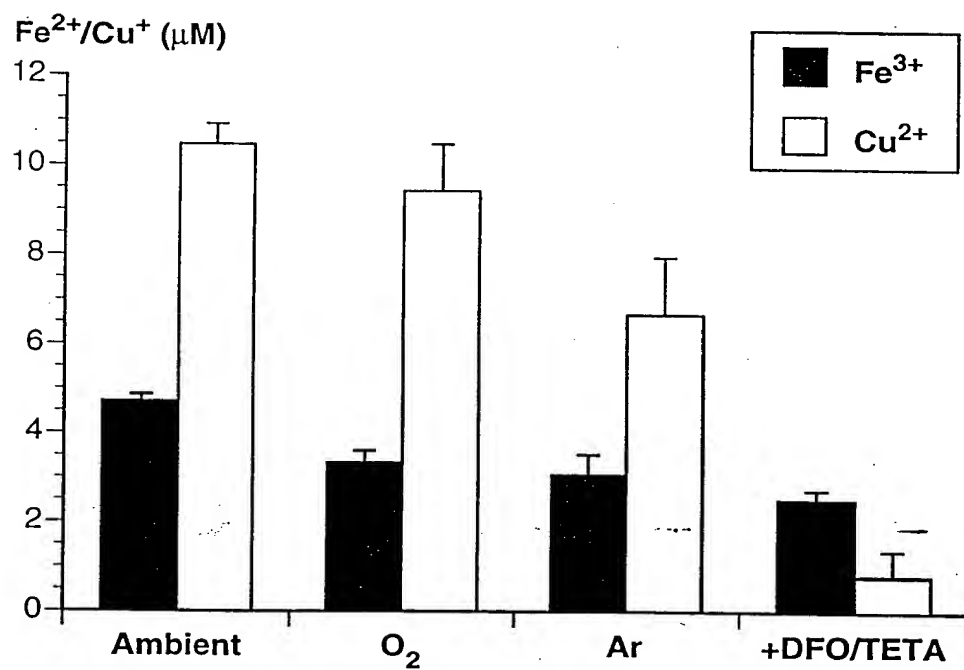


Fig. 13B

095599.000000

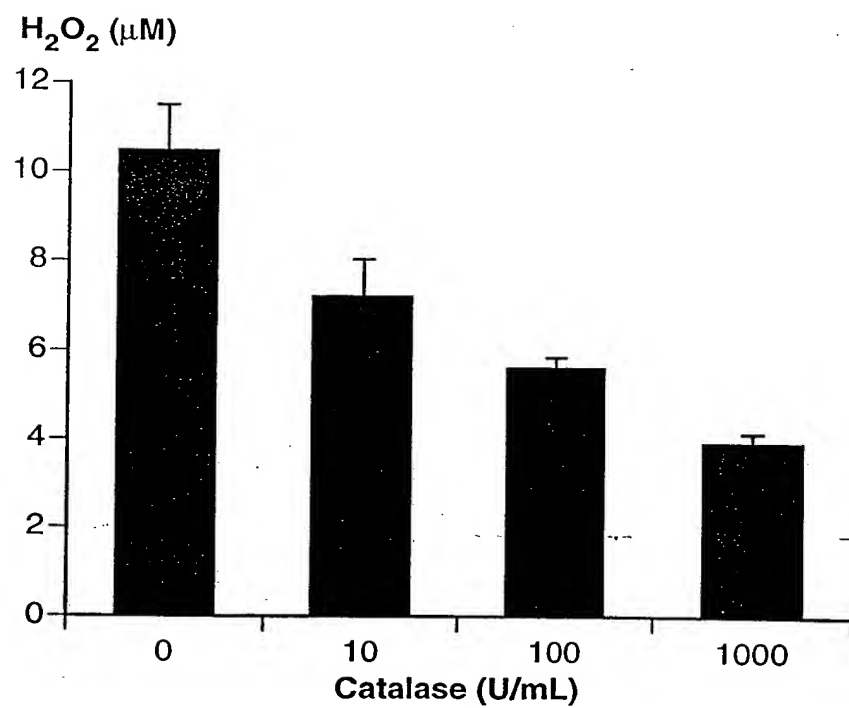


Fig. 14A

Construct	H ₂ O ₂ (μM)
Aβ1-42	~10.5
Aβ1-40	~7.5
Rat Aβ1-40	~0.2
Aβ40-1	~0.1
Aβ1-28	~0.5

Fig. 14B

Bar chart showing H_2O_2 production (μM) for Fe^{3+} (black bars) and Cu^{2+} (white bars) under different conditions: -, BC, BP, and DFO/TETA. Error bars represent standard deviation.

Condition	Fe^{3+} (μM)	Cu^{2+} (μM)
-	~10.5	~13.5
BC	~1.5	~0.2
BP	~0.5	~0.1
DFO/TETA	~9.5	~5.8

Fig. 14C

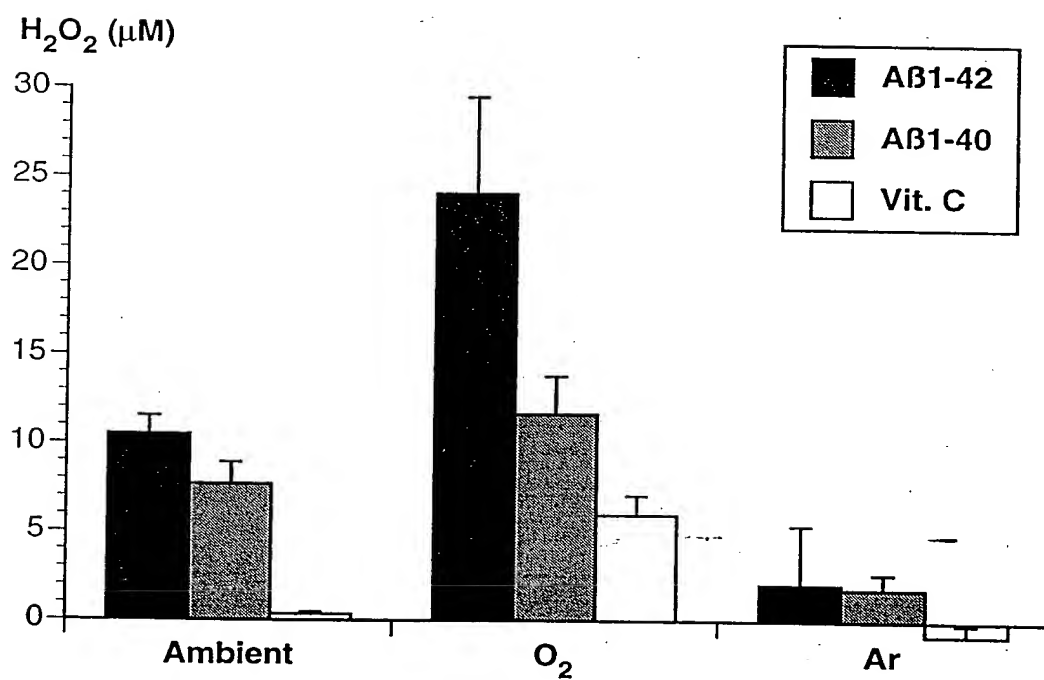


Fig. 14D

0955980 092404

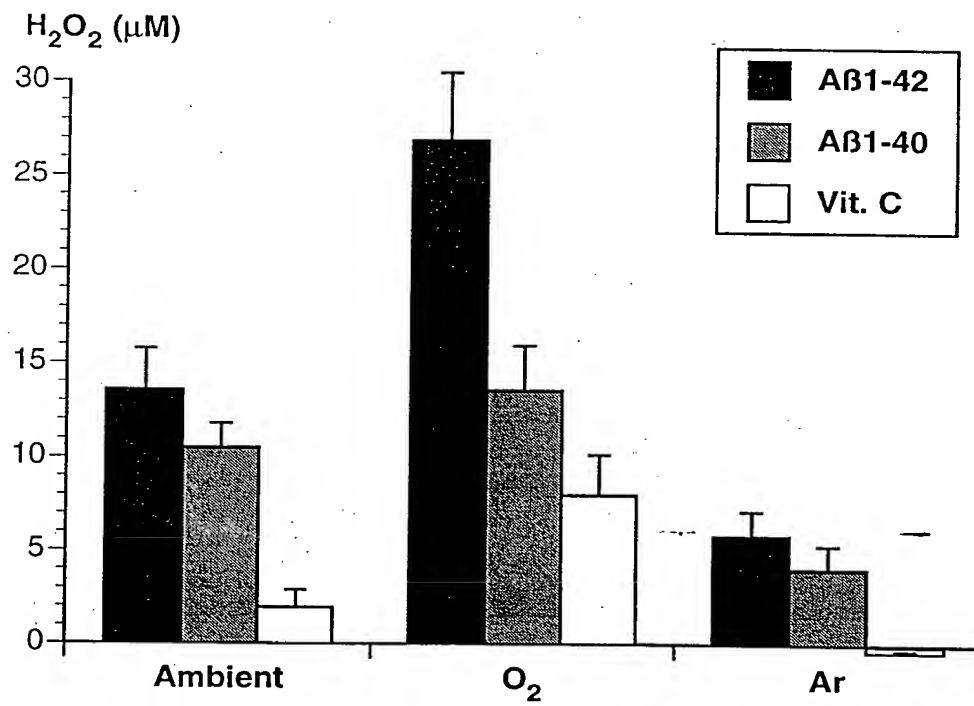


Fig. 14E

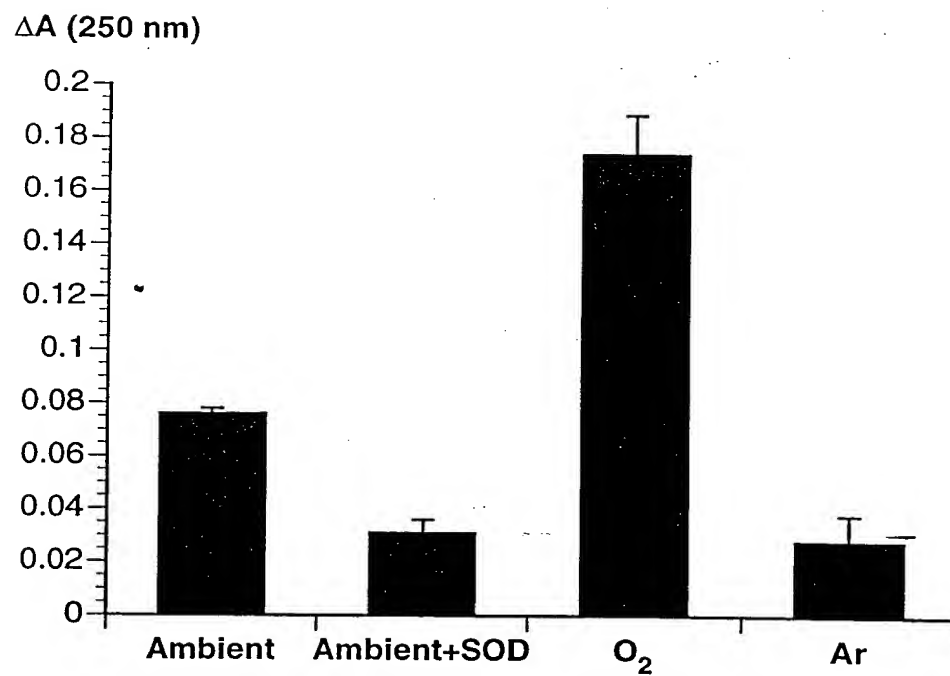


Fig. 15A

Peptide	ΔA (250 nm)
A β 1-42	~0.076
A β 1-40	~0.044
Rat A β 1-40	~0.020
A β 40-1	~0.013
A β 1-28	~0.004

Fig. 15B

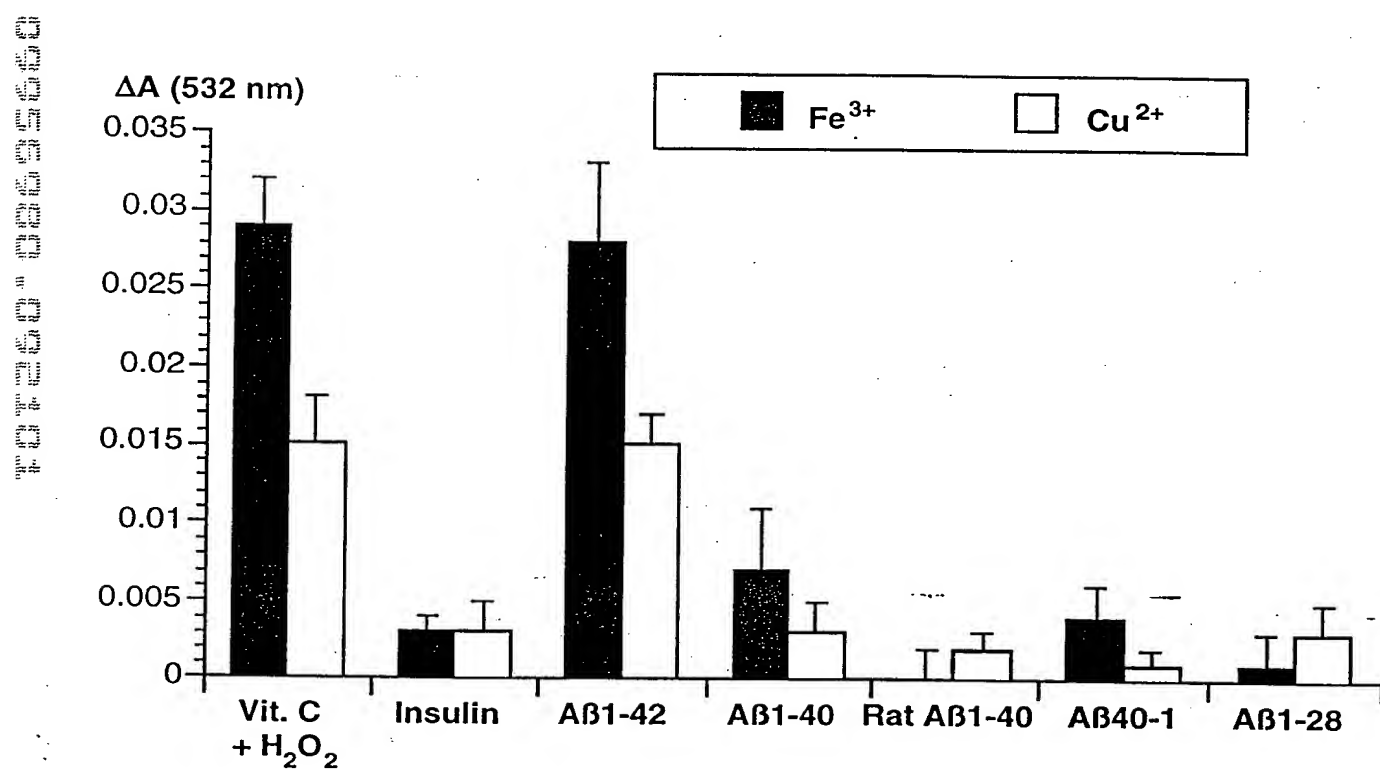


Fig. 16A

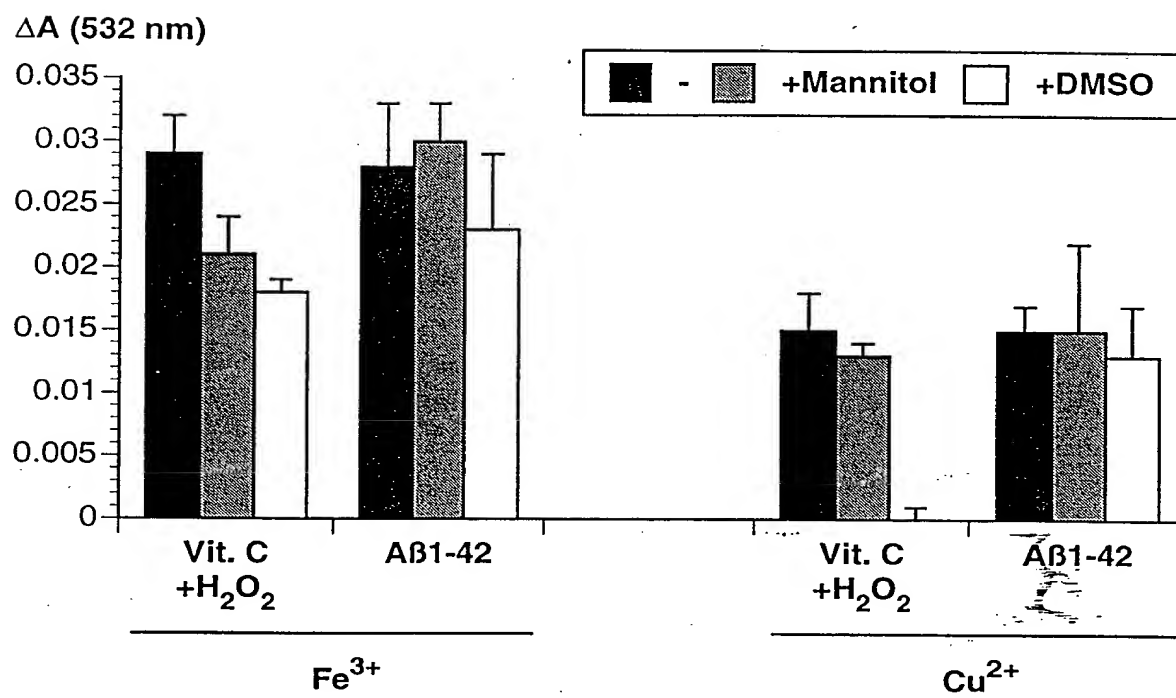


Fig. 16B

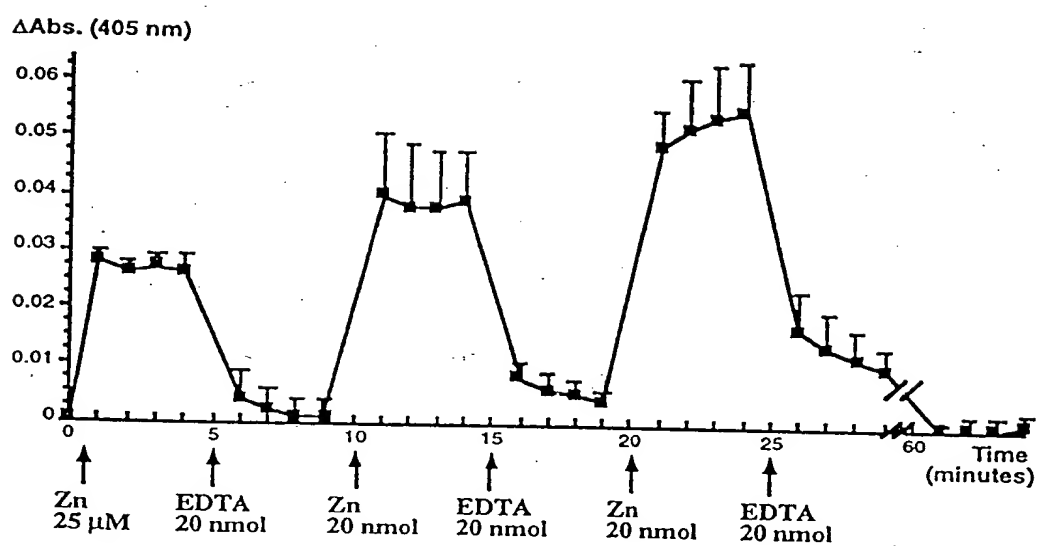
[illegible]

Fig. 17

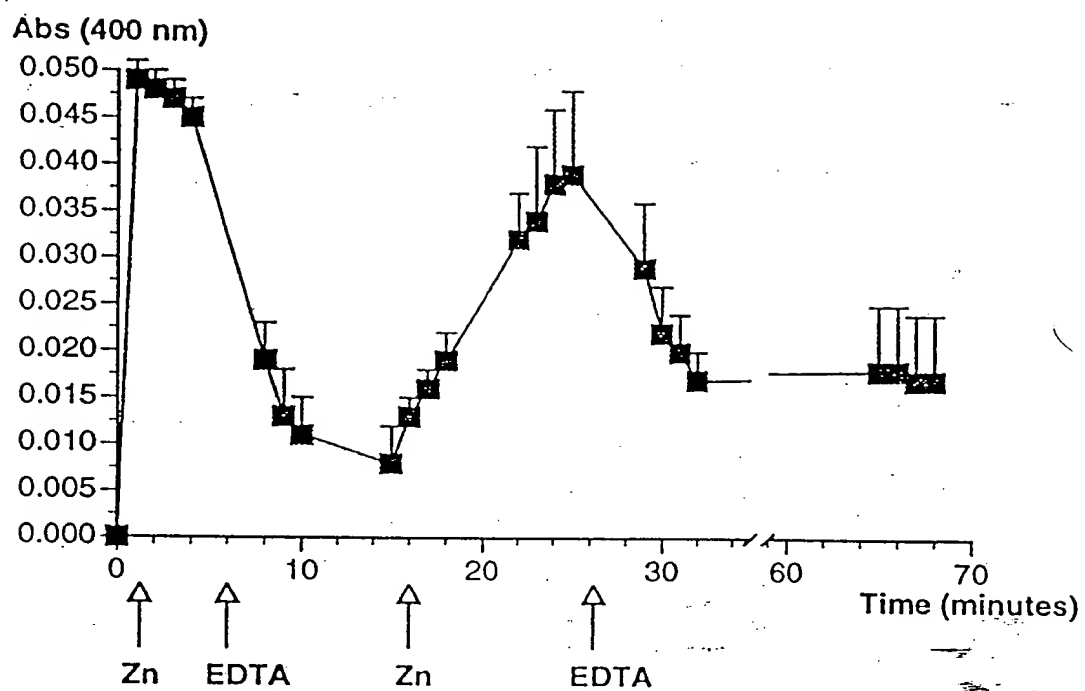


Fig. 18

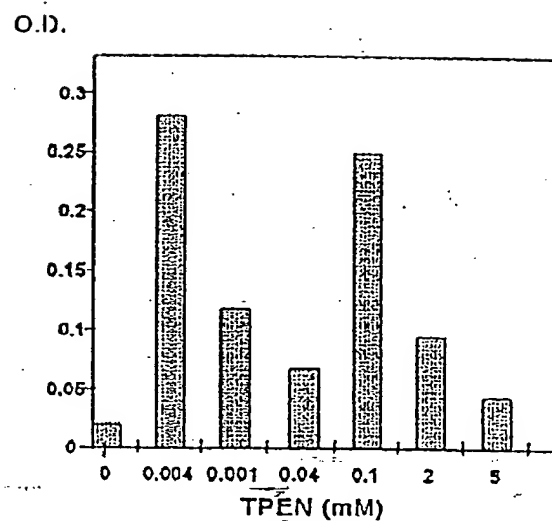
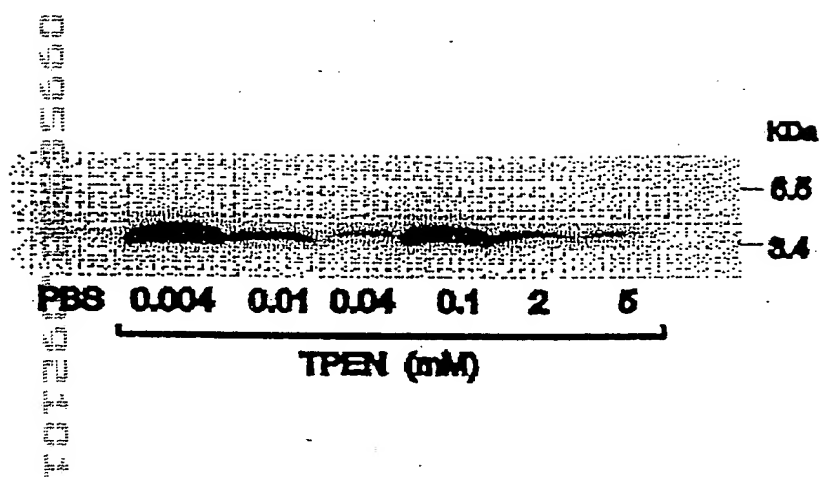


Fig. 19A

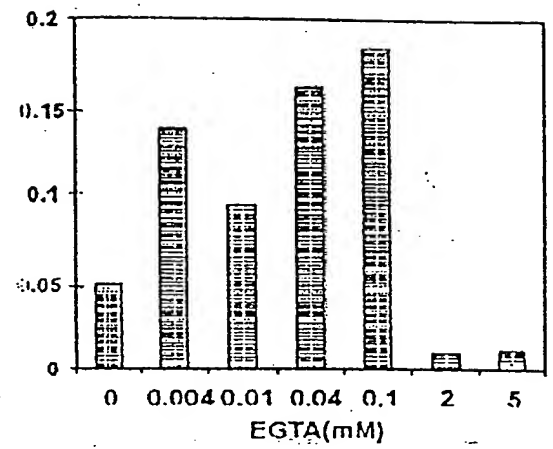
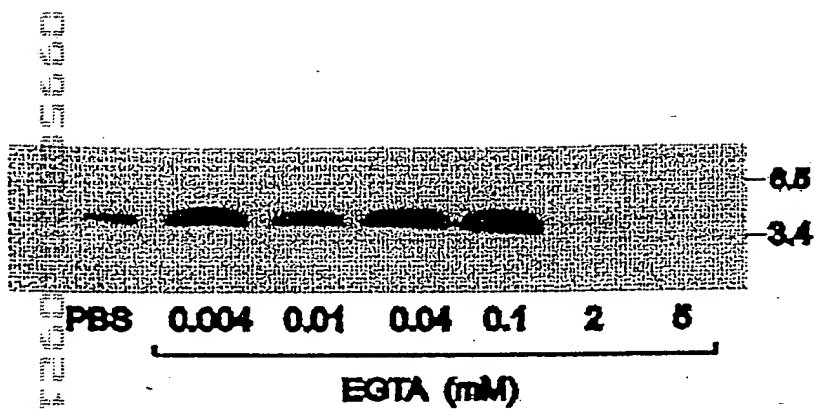


Fig. 19B

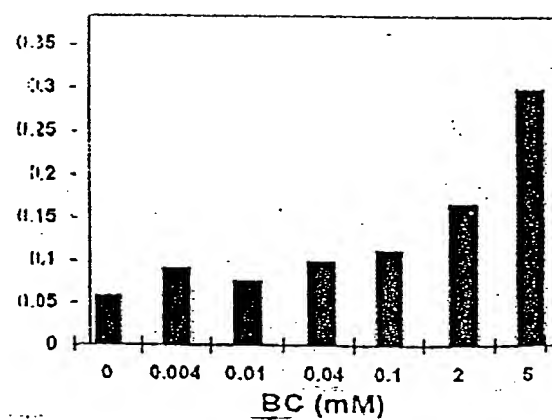
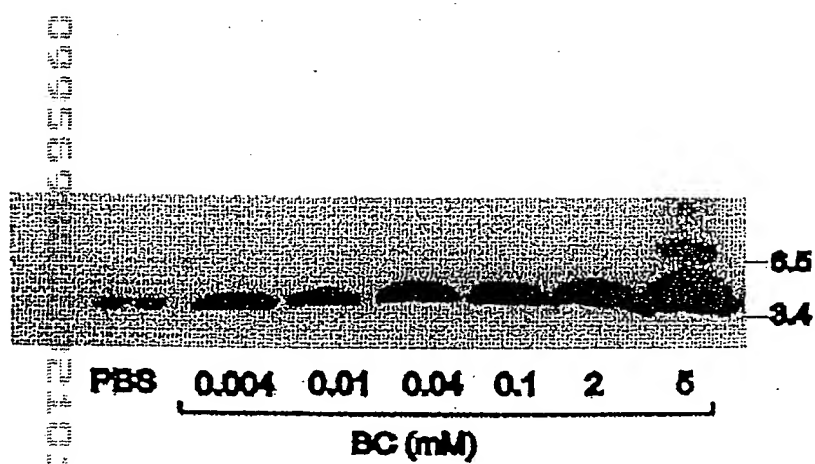


Fig. 19C

AC 14780

607

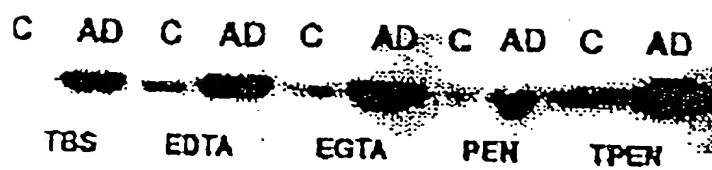
— 6
— 4

FWD T Y E E B B 1-40 1-40
0.1 2.0 0.1 2.0 0.1 2.0 1mg 5mg

Cover (photo)

Fig. 20A

00555801 092404



Young control vs AD, various chelators. 5mM

Fig. 20B

Fig. 21

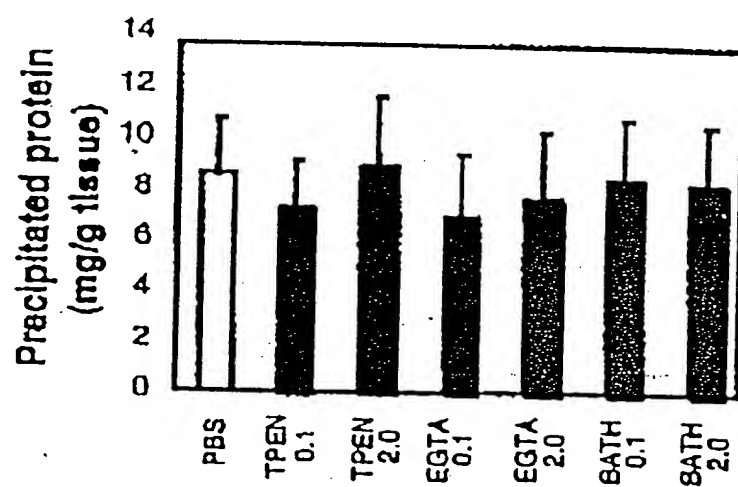


Fig. 22

Fig. 24

0055900 09340
F0260 0865600

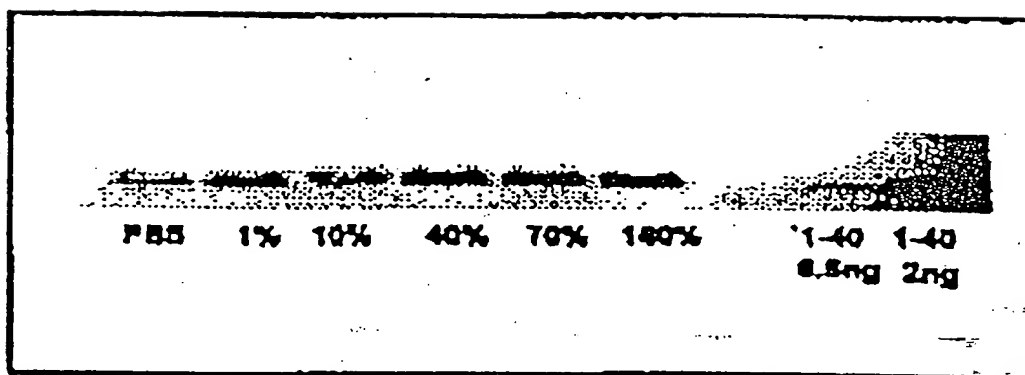


Fig. 25A

Clioquinol concentration	Optical Density
0%	1.8
1%	3.9
10%	4.4
40%	5.0
70%	4.9
100%	4.3

Fig. 25B

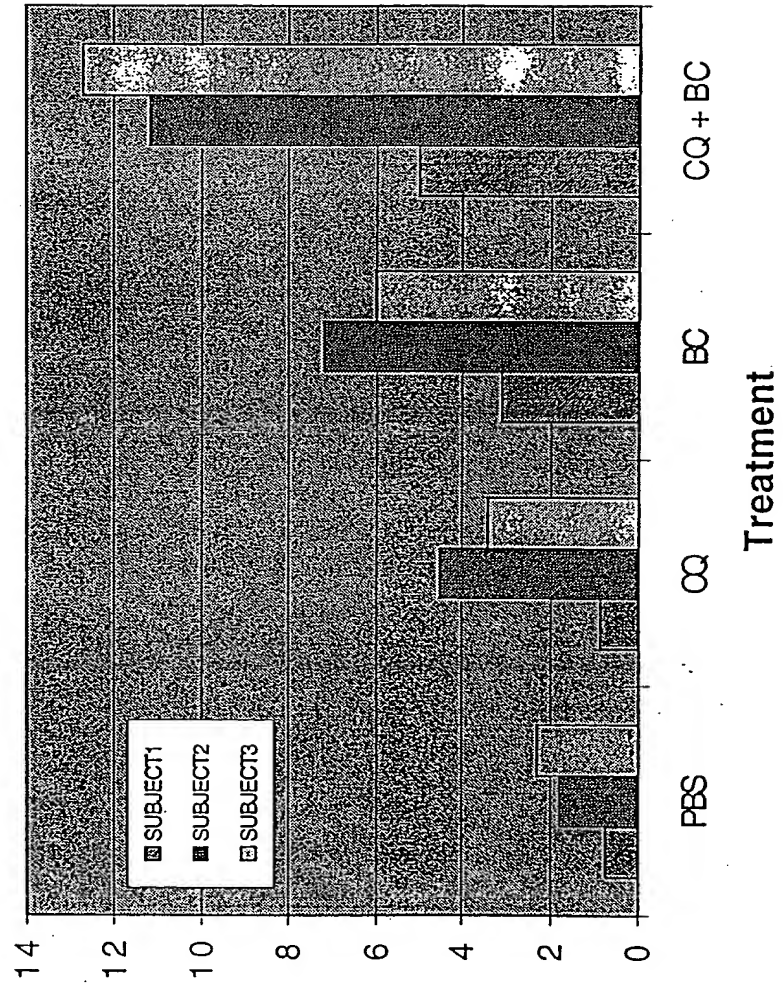


Fig. 26

0956990904

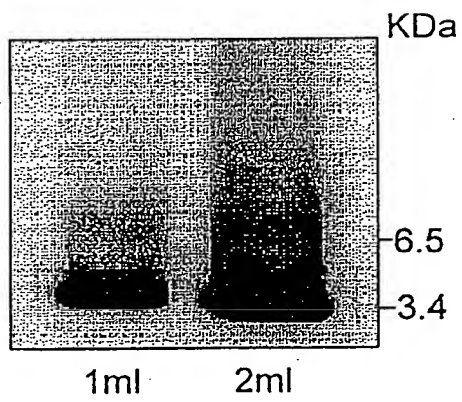
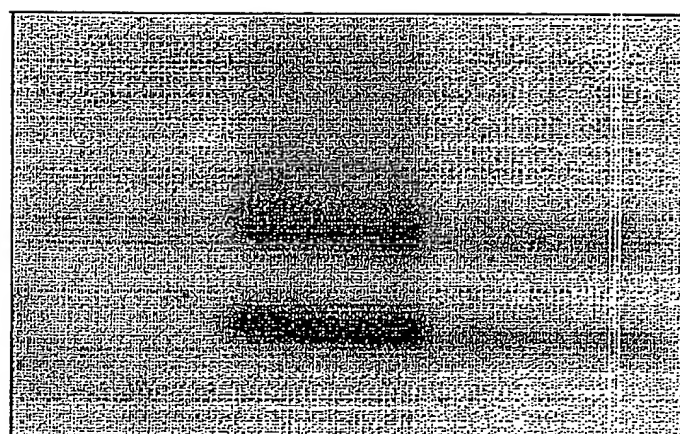


Fig. 27

Fig. 28A

00959500 00000000



PBS

Mg²⁺

Ca²⁺

Fig. 28B

095900"0940
000000000000

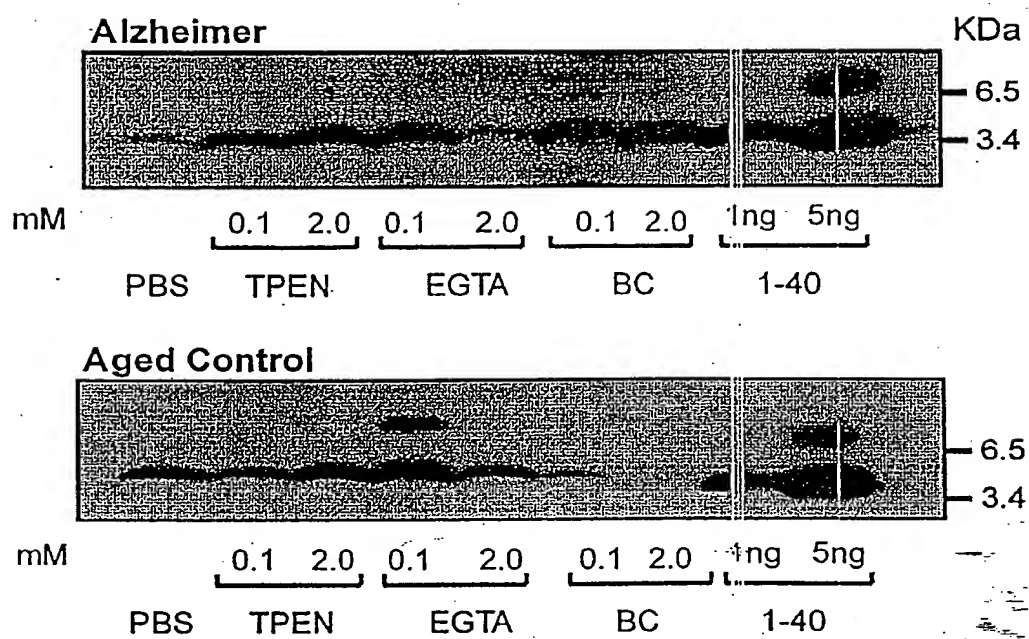


Fig. 29A

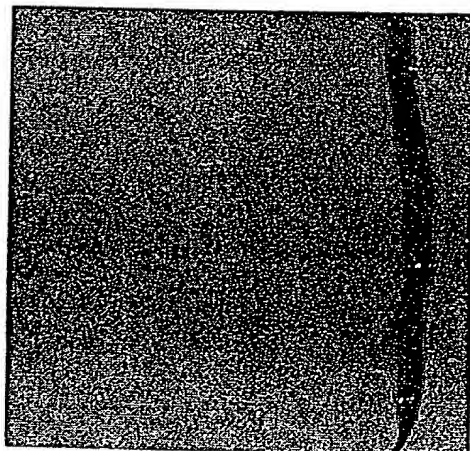
Agent	Concentration (mM)	AD Aβ (% of PBS)	AC Aβ (% of PBS)
TPEN	0.1	~185	~95
	2.0	~240	~150
EGTA	0.1	~205	~115
	2.0	~45	~70
BC	0.1	~300	~85
	2.0	~400	~115

Fig. 29B

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

AB1-40

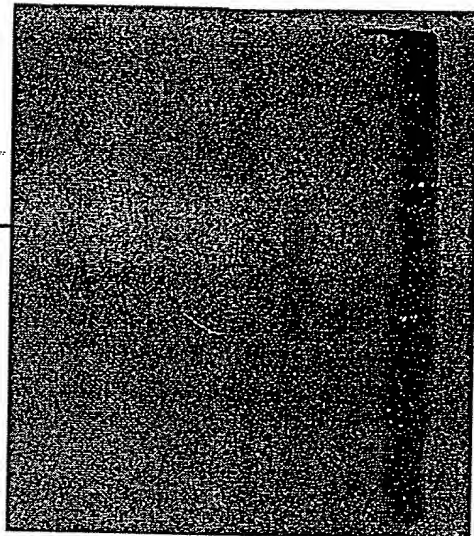
Metal	-	Cu	Cu	Fe	Fe
pH	7.4	7.4	6.6	7.4	6.6



Day 0

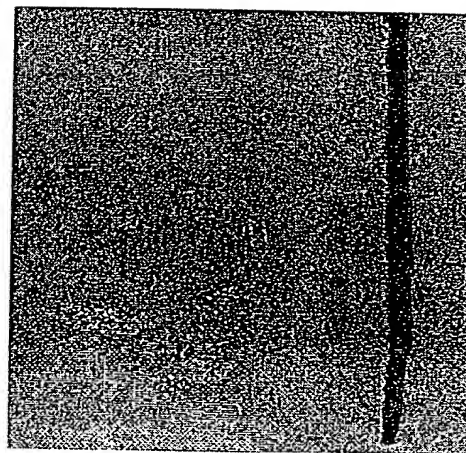
AB1-42

-	-	Cu	Cu	Fe	Fe
7.4	6.6	7.4	6.6	7.4	6.6



—21.5
—14.3
—6.4
—3.5

Day 3



—21.5
—14.3
—6.4
—3.5

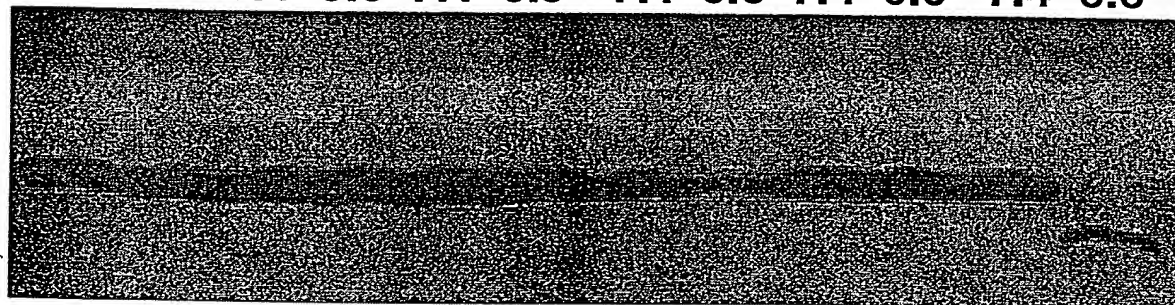
Fig. 31A

Rat Aβ1-40

Day 0

Day 5

$\begin{array}{c} \text{---} \\ \text{7.4} \quad \text{6.6} \end{array}$
 $\begin{array}{c} \text{Cu}^{2+} \\ \text{7.4} \quad \text{6.6} \end{array}$
 $\begin{array}{c} \text{Fe}^{3+} \\ \text{7.4} \quad \text{6.6} \end{array}$
 $\begin{array}{c} \text{---} \\ \text{7.4} \quad \text{6.6} \end{array}$
 $\begin{array}{c} \text{Cu}^{2+} \\ \text{7.4} \quad \text{6.6} \end{array}$
 $\begin{array}{c} \text{Fe}^{3+} \\ \text{7.4} \quad \text{6.6} \end{array}$



- 14.3
- 6.5
- 3.4

Fig. 31B

095690.090
095690.090

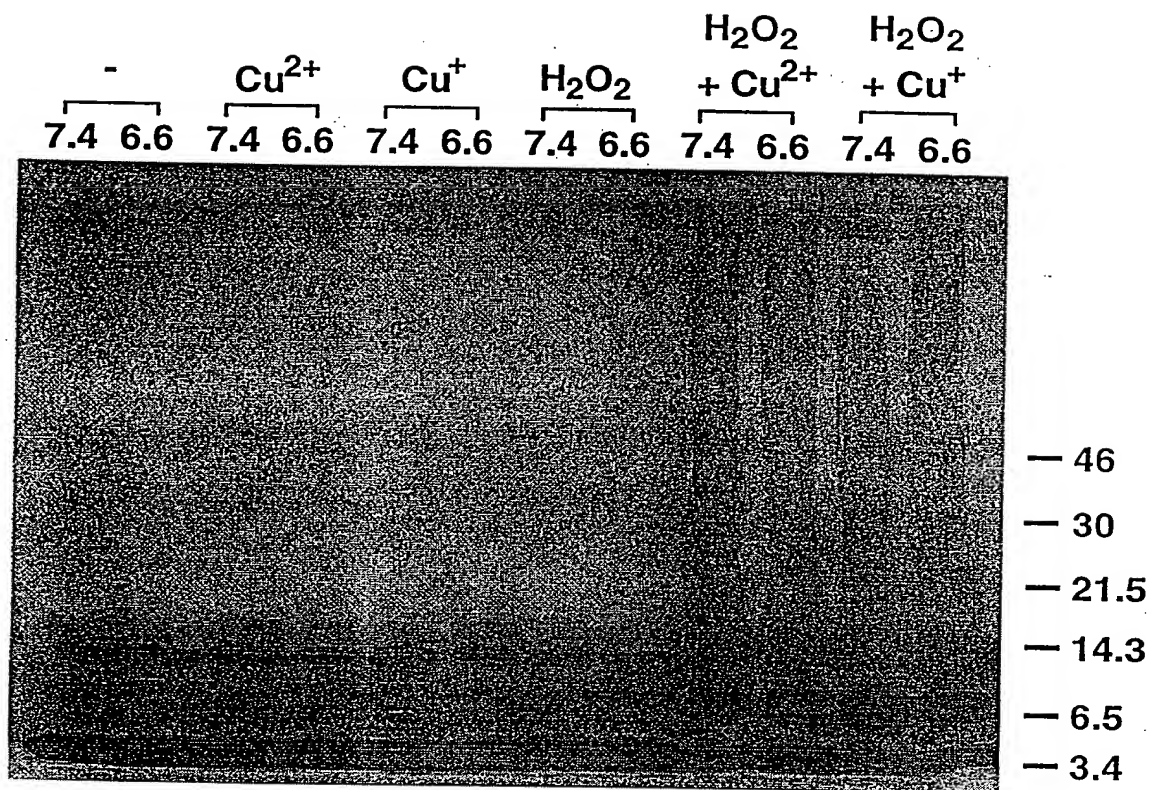


Fig. 32A

-
 7.4 6.6
 Fe³⁺
 7.4 6.6
 Fe²⁺
 7.4 6.6
 H₂O₂ + Fe³⁺
 7.4 6.6
 H₂O₂ + Fe²⁺
 7.4 6.6
 H₂O₂ + Cu²⁺
 7.4 6.6

-46
 -30
 -21.5
 -14.3
 -6.5
 -3.4

— 46
— 30
— 21.5
— 14.3
— 6.5
— 3.4

Fe^{2+}
 $\text{H}_2\text{O}_2 +$
 Asc.
 acid

Cu^{2+} Fe^{3+} H_2O_2 $+$ Cu^{2+} TCEP Cu^{2+} TCEP

- Cu^{2+} Fe^{3+} $+$ Cu^{2+} TCEP TCEP

- 46
 - 30
 - 21.5
 - 14.3
 - 6.5
 - 3.4

Fig. 33A

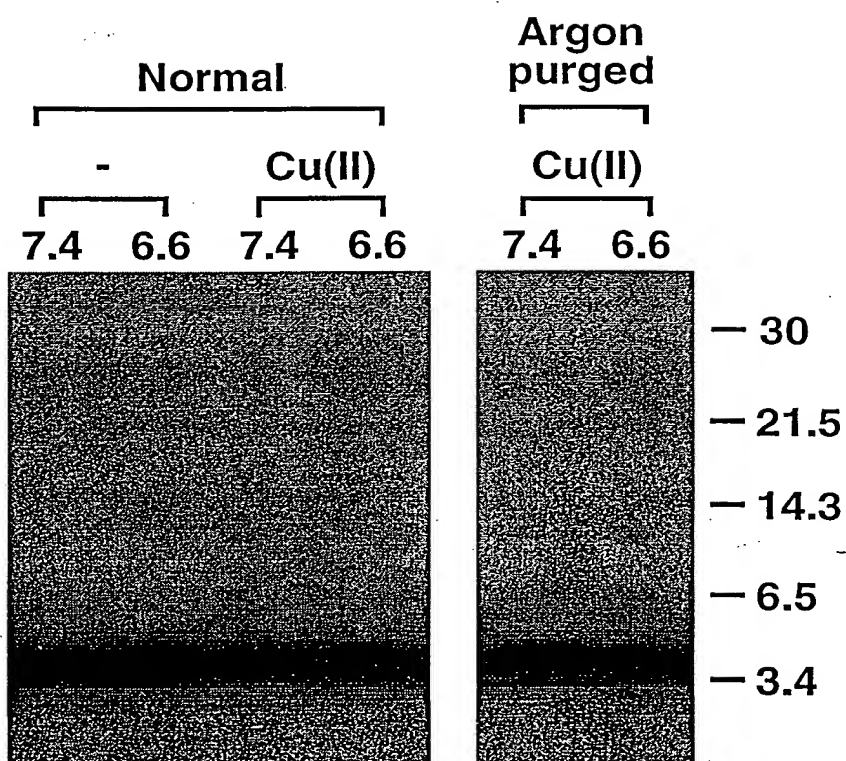
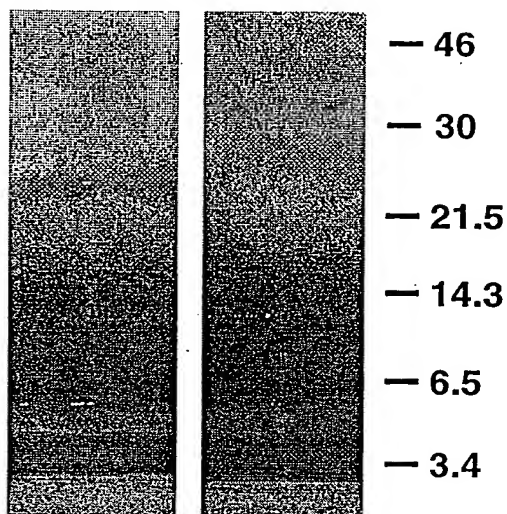


Fig. 33B

Polymerization
reaction

Urea

$AB_{1-42} + Cu^{2+}$
- 9 M
7.4 6.6 7.4 6.6



Polymerization
reaction

Urea

$AB_{1-42} + Cu^{2+} + H_2O_2$
- 4.5 M 9 M
7.4 6.6 7.4 6.6 7.4 6.6

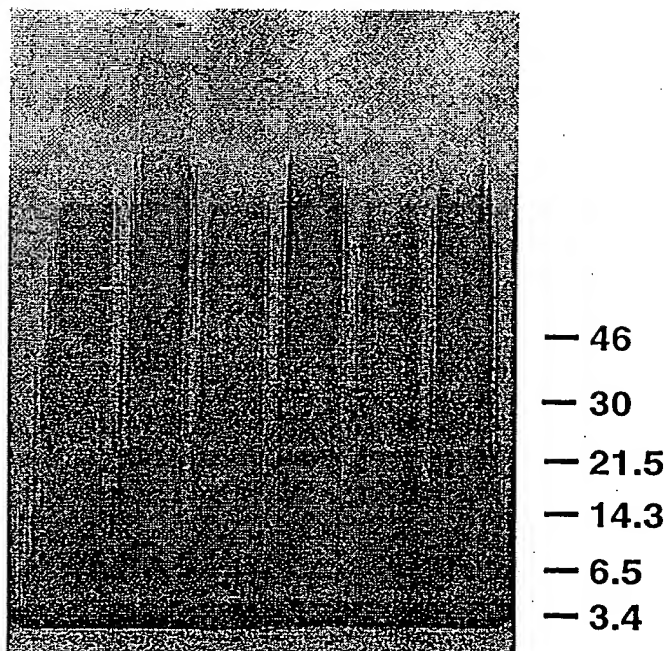


Fig. 34A

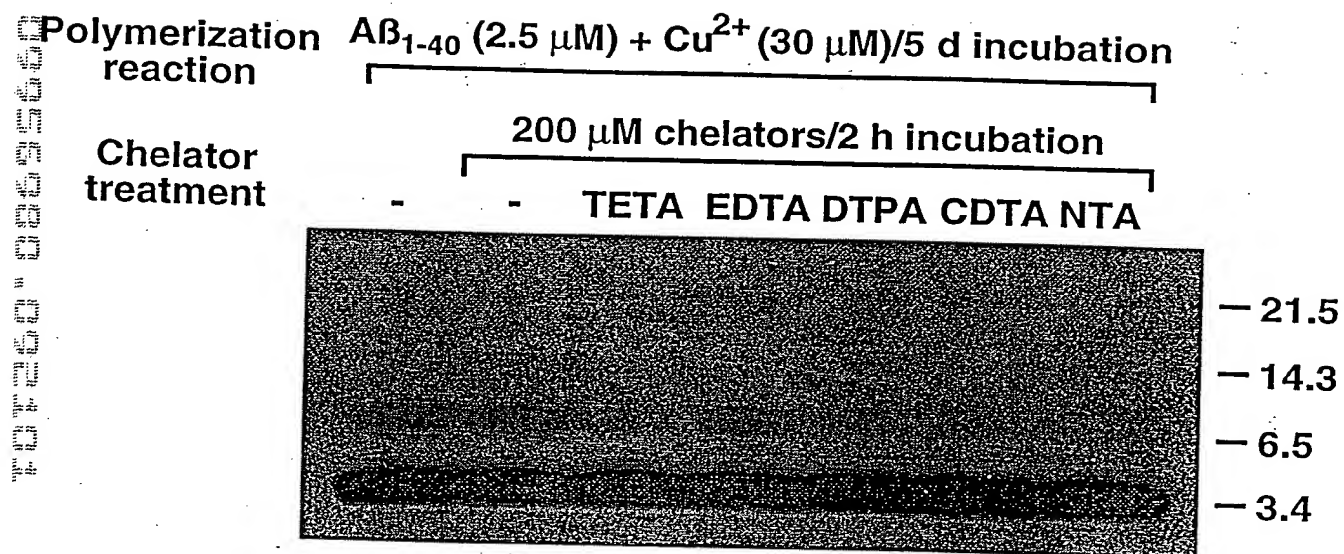


Fig. 34B

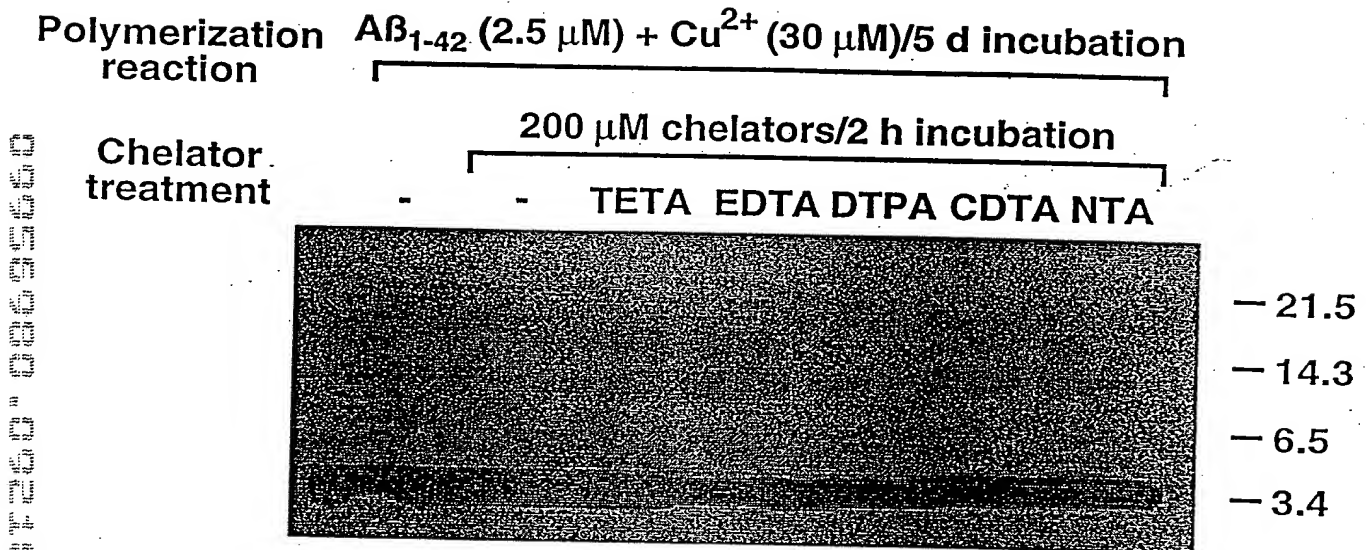


Fig. 34C

$$\begin{aligned} & \left\{ \begin{array}{l} \text{I} \\ \text{II} \\ \text{III} \\ \text{IV} \\ \text{V} \\ \text{VI} \\ \text{VII} \\ \text{VIII} \\ \text{IX} \\ \text{X} \\ \text{XI} \\ \text{XII} \\ \text{XIII} \\ \text{XIV} \\ \text{XV} \\ \text{XVI} \\ \text{XVII} \\ \text{XVIII} \\ \text{XIX} \\ \text{XX} \\ \text{XXI} \\ \text{XXII} \\ \text{XXIII} \\ \text{XXIV} \\ \text{XXV} \\ \text{XXVI} \\ \text{XXVII} \\ \text{XXVIII} \\ \text{XXIX} \\ \text{XXX} \end{array} \right\} \begin{array}{l} \text{I} \\ \text{II} \\ \text{III} \\ \text{IV} \\ \text{V} \\ \text{VI} \\ \text{VII} \\ \text{VIII} \\ \text{IX} \\ \text{X} \\ \text{XI} \\ \text{XII} \\ \text{XIII} \\ \text{XIV} \\ \text{XV} \\ \text{XVI} \\ \text{XVII} \\ \text{XVIII} \\ \text{XIX} \\ \text{XX} \\ \text{XXI} \\ \text{XXII} \\ \text{XXIII} \\ \text{XXIV} \\ \text{XXV} \\ \text{XXVI} \\ \text{XXVII} \\ \text{XXVIII} \\ \text{XXIX} \\ \text{XXX} \end{array} \end{aligned}$$

A black and white photograph of a textured surface, possibly a book cover or endpaper. The texture is dense and repeating, consisting of small, interlocking geometric shapes that create a complex, woven appearance. The lighting is even, highlighting the intricate details of the pattern.

- 46
- 30
- 21.5
- 14.3
- 6.5
- 3.4

Fig. 340

